

## PRODUCT DATASHEET

### DULUX T/E HF & AC Mains 16 W/4000 K

OSRAM DULUX T/E LED HF & AC MAINS | LED replacement for CFLni with 4-pin GX24q base for ECG



#### Areas of application

- Supermarkets and department stores
- Walkways and corridors
- Hotels, restaurants
- Outdoor applications only in suitable luminaires

#### Product benefits

- Quick, simple and safe replacement
- Low energy consumption
- Operation directly on 230 V AC mains possible

#### Product features

- LED replacement for conventional compact fluorescent lamps for use in ECG luminaires or on AC mains
- Single-ended four-pin plug-in GX24q base
- Rotatable base around its longitudinal axis ( $\pm 90^\circ$ )
- Type of protection: IP20
- Lifetime up to 30,000 h
- Mercury-free lamps



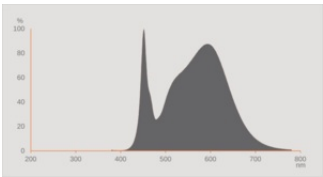
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**TECHNICAL DATA****Electrical data**

|                                        |               |
|----------------------------------------|---------------|
| Nominal wattage                        | 16 W          |
| Construction wattage                   | 16.00 W       |
| Nominal voltage                        | 220...240 V   |
| Operating mode                         | ECG, AC Mains |
| Claimed equiv. conventional lamp power | 32 W          |
| Nominal current                        | 68 mA         |
| Type of current                        | AC            |
| Inrush current                         | 20 A          |
| Operating frequency                    | 50/60 Hz      |
| Mains frequency                        | 50/60 Hz      |
| Max. lamp number on MCB B10 A          | 130           |
| Max. lamp number on MCB B16 A          | 210           |
| Total harmonic distortion              | ≤ 30 %        |
| Power factor $\lambda$                 | > 0.90        |

**Photometrical data**

|                                         |            |
|-----------------------------------------|------------|
| Luminous flux                           | 1800 lm    |
| Nominal useful luminous flux 90°        | 1800 lm    |
| Luminous efficacy                       | 112 lm/W   |
| Lumen main.fact.at end of nom.life time | 0.70       |
| Light color (designation)               | Cool White |
| Color temperature                       | 4000 K     |
| Color rendering index Ra                | 80         |
| Light color                             | 840        |
| Standard deviation of color matching    | ≤6 sdcn    |
| Flickering metric (Pst LM)              | 1.0        |
| Stroboscope effect metric (SVM)         | 0.4        |

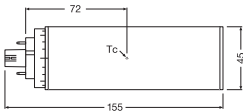


EPREL data spectral diagram PROF  
LEDr 4000K

Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 130 °    |
| Warm-up time (60 %) | < 0.50 s |
| Starting time       | < 0.5 s  |

Dimensions & Weight



|                  |           |
|------------------|-----------|
| Overall length   | 155.00 mm |
| Diameter         | 45.00 mm  |
| Maximum diameter | 45 mm     |
| Product weight   | 143.00 g  |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+50 °C |
| Maximum temperature at tc test point | 85 °C        |

Lifespan

|                                              |         |
|----------------------------------------------|---------|
| Lifespan L70/B50 at 25 °C                    | 30000 h |
| Number of switching cycles                   | 200000  |
| Lumen maintenance at end of service lifetime | 0.70    |
| Rated lamp survival factor at 6,000 h        | ≥ 0.90  |

Additional product data

|                             |         |
|-----------------------------|---------|
| Base (standard designation) | GX24q-3 |
| Mercury content             | 0.0 mg  |
| Design / version            | Frosted |

### Capabilities

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

### Certificates & Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | E <sup>1)</sup> |
| Energy consumption                           | 16.00 kWh/1000h |
| Type of protection                           | IP20            |
| Standards                                    | CE / EAC        |
| Photobiological safety group acc. to EN62778 | RG0             |

<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | DULUXTE32LED 16 |
|-----------------|-----------------|

### Energy labelling regulation data acc EU 2019/2015

|                                                     |              |
|-----------------------------------------------------|--------------|
| Lighting technology used                            | LED          |
| Non-directional or directional                      | NDLS         |
| Mains or non-mains                                  | MLS          |
| Light source cap-type (or other electric interface) | GX24q-3      |
| Connected light source (CLS)                        | No           |
| Color-tuneable light source                         | No           |
| Envelope                                            | No           |
| High luminance light source                         | No           |
| Anti-glare shield                                   | No           |
| Correlated colour temperature type                  | SINGLE_VALUE |
| Standby power                                       | 0 W          |
| Claim of equivalent power                           | No           |
| Length                                              | 155.00 mm    |
| Height                                              | 45.00 mm     |
| Width                                               | 45.00 mm     |
| Chromaticity coordinate x                           | 0.381        |
| Chromaticity coordinate y                           | 0.379        |
| R9 Colour rendering index                           | 0.00         |

|                                                      |            |
|------------------------------------------------------|------------|
| Beam angle correspondence                            | SPHERE_360 |
| Survival factor                                      | 0.90       |
| Displacement factor                                  | 0.90       |
| LED light source replaces a fluorescent light source | No         |
| EPREL ID                                             | 642884     |
| Model number                                         | AC35209    |

### Safety advice

- Always check the latest update of the compatibility list available on [www.ledvance.com/ecg-compatibility](http://www.ledvance.com/ecg-compatibility).
- Not suitable for operation with conventional control gear.
- Lamp not suitable for emergency operation.
- Do not touch the lamp if broken.
- Must not be used if outer bulb is defective.

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name       |
|------------------------------------------------------------------------------------|----------------------------------------|---------------------|
|  | User instruction / safety instructions | OSRAM DULUX T/E LED |
|  | Declarations of conformity             | DULUX lamp          |
|  | Declarations of conformity UKCA        | DULUX LED           |

| Photometric and lighting design files                                              |                                     | Document name                               |
|------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|
|  | IES file (IES)                      | DULUX TE32LED 16W840 230VHFGX24q-3          |
|  | LDT file (Eulumdat)                 | DULUX TE32LED 16W840 230VHFGX24q-3          |
|  | Light distribution curve type polar | DULUX TE32LED 16W840 230VHFGX24q-3          |
|  | Spectral power distribution         | EPREL data spectral diagram PROF LEDr 4000K |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075559455 | Folding box<br>1             | 48 mm x 48 mm x 161 mm               | 156.00 g     | 0.37 dm <sup>3</sup> |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075559462 | Shipping box<br>10           | 246 mm x 102 mm x 172 mm             | 1688.00 g    | 4.32 dm <sup>3</sup> |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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## DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.